Release notes for ENDF/B Development n-054_Xe_136 evaluation



April 26, 2017

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=5461,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=5461, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 126 TO 184

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=5461, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=5461, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 126

2. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=2, MT=151 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 186

3. Missing a section in directory so your directory is messed up. This error will break everything else *MAT=5461*, *MF= 3*, *MT= 1 (0)*: Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 231

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 259

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 287

6. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 312

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 17 SECTION 3/ 17 NOT IN DIRECTORY

RECORD NUMBER 327

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY

RECORD NUMBER 335

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 28

SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 345

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 355

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 380

12. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 404

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 54 SECTION 3/ 54 NOT IN DIRECTORY

RECORD NUMBER 428

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 452

15. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=56 (0): Directory (b)

2

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 475

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 57 SECTION 3/ 57 NOT IN DIRECTORY

RECORD NUMBER 498

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 58 SECTION 3/ 58 NOT IN DIRECTORY

RECORD NUMBER 521

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 59 SECTION 3/ 59 NOT IN DIRECTORY

RECORD NUMBER 543

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 60 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 60 SECTION 3/ 60 NOT IN DIRECTORY

RECORD NUMBER 565

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=61 (0): Directory (b)

3, 1111 07 01, 1111 0, 1111 01 (0), 2 0, 0000

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 61 SECTION 3/ 61 NOT IN DIRECTORY

RECORD NUMBER 587

21. Missing a section in directory so your directory is messed up. This error will break ev-

erything else MAT=5461, MF=3, MT=62 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 62 SECTION 3/ 62 NOT IN DIRECTORY

RECORD NUMBER 608

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=63 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 63 SECTION 3/ 63 NOT IN DIRECTORY

RECORD NUMBER 629

23. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 64 SECTION 3/ 64 NOT IN DIRECTORY

RECORD NUMBER 650

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 65 SECTION 3/ 65 NOT IN DIRECTORY

RECORD NUMBER 670

25. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=66 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 66

SECTION 3/66 NOT IN DIRECTORY

RECORD NUMBER 690

26. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 710

27. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 730

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 758

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 3, MT = 104 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 772

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=105 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT=105 SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 783

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=3, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 793

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 2 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 810

33. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 16 SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER 1145

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 17 SECTION 4/ 17 NOT IN DIRECTORY

RECORD NUMBER 1192

35. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=4, MT=22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 22 SECTION 4/ 22 NOT IN DIRECTORY

RECORD NUMBER 1217

36. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=5461, MF= 4, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 28 SECTION 4/ 28 NOT IN DIRECTORY

RECORD NUMBER 1248

37. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=4, MT=51 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 51

SECTION 4/51 NOT IN DIRECTORY

RECORD NUMBER 1281

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=4, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 52 SECTION 4/ 52 NOT IN DIRECTORY

RECORD NUMBER 1500

39. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=4, MT=53 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 1589

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 1676

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 1878

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 1961

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 57 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 57 SECTION 4/ 57 NOT IN DIRECTORY

RECORD NUMBER 2153

44. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 58 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 58 SECTION 4/ 58 NOT IN DIRECTORY

RECORD NUMBER 2335

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 59 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 59 SECTION 4/ 59 NOT IN DIRECTORY

RECORD NUMBER 2412

46. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=5461,\ MF=4,\ MT=60\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 60 SECTION 4/ 60 NOT IN DIRECTORY

RECORD NUMBER 2487

47. Missing a section in directory so your directory is messed up. This error will break everything else MAT=5461, MF=4, MT=61 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 61 SECTION 4/ 61 NOT IN DIRECTORY

RECORD NUMBER 2560

48. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 62 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 62 SECTION 4/ 62 NOT IN DIRECTORY

RECORD NUMBER 2631

49. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 63 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 63 SECTION 4/63 NOT IN DIRECTORY

RECORD NUMBER 2700

50. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 64 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 64 SECTION 4/64 NOT IN DIRECTORY

RECORD NUMBER 2767

51. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 65 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 65 SECTION 4/65 NOT IN DIRECTORY

RECORD NUMBER 2832

52. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5461, MF = 4, MT = 66 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 66 SECTION 4/66 NOT IN DIRECTORY

RECORD NUMBER 2895

53. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 4, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 2956

54. Missing a section in directory so your directory is messed up. This error will break everything else MAT = 5461, MF = 5, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 5, MT= 16

SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 3018

55. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 5, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 5, MT= 17 SECTION 5/ 17 NOT IN DIRECTORY

RECORD NUMBER 3228

56. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 5, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 5, MT= 22 SECTION 5/ 22 NOT IN DIRECTORY

RECORD NUMBER 3328

57. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 5461, MF = 5, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 5, MT= 28 SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 3451

58. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=5461, MF= 5, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=5461, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 3584

- psyche Warnings:
 - 1. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 136. L=0 / STRENGTH FUNCTION IS 2.84087E-02 / AVERAGE GAMMA WIDTH 3.00000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

FILE 2

SECTION 151

ISOTOPE MASS = 136. L = 0

STRENGTH FUNCTION IS 2.84087E-02

AVERAGE GAMMA WIDTH 3.00000E-02

... [1 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 136. L = 0 / STRENGTH FUNCTION 2.84087E-02 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ISOTOPE MASS = 136. L = 0

STRENGTH FUNCTION 2.84087E-02

LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04

3. Strength function in URR not in agreement with PSYCHE's expectations FILE 2 / SECTION 151 / ISOTOPE MASS = 136. L = 1 / STRENGTH FUNCTION IS 8.81166E-05 / AVERAGE GAMMA WIDTH 3.02286E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.

```
FILE 2
         SECTION 151
              ISOTOPE MASS = 136. L = 1
                       STRENGTH FUNCTION IS 8.81166E-05
                                    AVERAGE GAMMA WIDTH 3.02286E-02
       ... [1 more lines]
    4. Strength function in URR not in agreement with PSYCHE's expectations
       FILE^{2} / SECTION~151 / ISOTOPE~MASS=136.~L=1 / STRENGTH~FUNCTION
       8.81166E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str.
       ftn.
       FILE 2
         SECTION 151
              ISOTOPE MASS = 136. L = 1
                           STRENGTH FUNCTION 8.81166E-05
                                              LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04
• fudge-4.0 Warnings:
    1. Missing a channel with a particular angular momenta combination
       resonances / resolved / MultiLevel\_Breit Wigner (Error # 0): missing Resonance Channel
       WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
    2. Potential scattering hasn't converted, you need more L's!
       resonances / resolved (Error # 1): potentialScatteringNotConverged
       WARNING: Potential scattering hasn't converged by L=1 at E=490000.0 eV, xs[1]/xs[0]=5.59614693353% > 0.1%
• fudge-4.0 Errors:
    1. Found a negative probability
       reaction label 1: n + Xe136_e1 / Product: n / Distribution: / angularTwoBody - XYs2d:
       (Error \# 0): Negative prob.
```

```
WARNING: Negative probabilities encountered. Incident energy: 1.9e7 eV, worst case: -0.00600451160994
WARNING: Negative probabilities encountered. Incident energy: 1.95e7 eV, worst case: -0.0551242975569
WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.105035213686
```

2. Found a negative probability $reaction\ label\ 4:\ n + Xe136_e4\ /\ Product:\ n\ /\ Distribution:\ /\ angular TwoBody\ -\ XYs2d:$ (Error # 0): Negative prob.

```
WARNING: Negative probabilities encountered. Incident energy: 1.85e7 eV, worst case: -0.0173273169895
WARNING: Negative probabilities encountered. Incident energy: 1.9e7 eV, worst case: -0.0495864799159
WARNING: Negative probabilities encountered. Incident energy: 1.95e7 eV, worst case: -0.0819720095745
WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.114442660287
```

3. Found a negative probability reaction label 6: n + Xe136_e6 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.

```
WARNING: Negative probabilities encountered. Incident energy: 1.95e7 eV, worst case: -0.0333841571454 WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.083707774402
```

4. Found a negative probability reaction label 7: n + Xe136 - e7 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Negative prob.

WARNING: Negative probabilities encountered. Incident energy: 1.95e7 eV, worst case: -0.0291621322141 WARNING: Negative probabilities encountered. Incident energy: 2.e7 eV, worst case: -0.079373627529

5. Calculated and tabulated Q values disagree.

reaction label 18: n[multiplicity:'2'] + Xe135 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7807470.056884766 eV vs -7.9948e6 eV!

6. Calculated and tabulated Q values disagree. reaction label 19: n[multiplicity:'3'] + Xe134 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -14171330.02191162 eV vs -1.4447e7 eV!

7. Calculated and tabulated Q values disagree. reaction label 20: n + H1 + I135 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9652519.745880127 eV vs -9.897e6 eV!

8. Calculated and tabulated Q values disagree. reaction label 21: Xe137 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 4297482.761154175 eV vs 4.0248e6 eV!

9. Calculated and tabulated Q values disagree. reaction label 22: n + He4 + Te132 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3395917.426742554 eV vs -3.6321e6 eV!

10. Calculated and tabulated Q values disagree. reaction label 23: H1 + I136-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -18064944.6656189 eV vs -6.0967e6 eV!

11. Calculated and tabulated Q values disagree. reaction label 24: H2 + I135_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -22772953.64494324 eV vs -7.6725e6 eV!

12. Calculated and tabulated Q values disagree. reaction label 25: H3 + I134-s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -27594984.37745667 eV vs -9.3179e6 eV!

13. Calculated and tabulated Q values disagree. reaction label 26: He4 + Te133_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 2437815.303710938 eV vs 2.1868e6 eV!

• njoy2012 Warnings:

- 1. Evaluation has no unresolved resonance parameters given unresr...calculation of unresolved resonance cross sections (0): No URR
 - ---message from unresr---mat 5461 has no unresolved parameters copy as is to nout
- 2. Evaluation has no unresolved resonance parameters given purr...probabalistic unresolved calculation (0): No URR
 - ---message from purr---mat 5461 has no unresolved parameters copy as is to nout
- 3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided
- 4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided
- 5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided
- 6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided
- 7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

 groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)
 - ---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided

• njoy2012 Errors:

```
1. An angular distribution is negative
   acer...monte carlo neutron and photon data (0): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                               22 for mt= 51 e= 1.900E+07
2. An angular distribution is negative
   acer...monte\ carlo\ neutron\ and\ photon\ data\ (1):\ Neg.\ P(Ej\mu)\ (b)
    ---message from ptleg2---negative probs found
                              144 for mt= 51 e= 1.950E+07
3. An angular distribution is negative
   acer...monte carlo neutron and photon data (2): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                              223 \text{ for mt= } 51 \text{ e= } 2.000\text{E+}07
4. An angular distribution is negative
   acer...monte carlo neutron and photon data (3): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                               89 for mt= 54 e= 1.850E+07
5. An angular distribution is negative
   acer...monte carlo neutron and photon data (4): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                              134 for mt= 54 e= 1.900E+07
6. An angular distribution is negative
   acer...monte carlo neutron and photon data (5): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                              114 for mt= 54 e= 1.950E+07
7. An angular distribution is negative
   acer...monte carlo neutron and photon data (6): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                              110 for mt= 54 e= 2.000E+07
8. An angular distribution is negative
   acer...monte carlo neutron and photon data (7): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
                              131 for mt= 56 e= 1.950E+07
9. An angular distribution is negative
   acer...monte carlo neutron and photon data (8): Neg. P(Ej\mu) (b)
    ---message from ptleg2---negative probs found
```

184 for mt= 56 e= 2.000E+07

10. An angular distribution is negative acer...monte carlo neutron and photon data (9): Neg. $P(Ej\mu)$ (b)

---message from ptleg2---negative probs found \$ 125 for mt= 57 e= 1.950E+07

11. An angular distribution is negative acer...monte carlo neutron and photon data (10): Neg. $P(Ej\mu)$ (b)

---message from ptleg2---negative probs found $$182\ \mbox{for mt=}\ 57\ \mbox{e=}\ 2.000\mbox{E+07}$